

Web Images Videos Maps News Shopping Gmail more ▼

[Search settings](#) | [Sign in](#)

Google

Google

IDCT with control mismatch pdf

Search

[Advanced Search](#)



Web

Results 1 - 10 of about 2,680 for IDCT with control mismatch pdf. (0.42 seconds)



[Show options...](#)

1. [DCT domain down conversion system that compensates for IDCT ...](#)

loading... View Patent Images (**PDF**) (Registered users only) One approach to **control IDCT mismatch** includes oddification methods. ...

www.patentstorm.us/patents/6456663/description.html

2. [Motion video compression system with inverse discrete cosine ...](#)

View Patent Images (**PDF**) (Registered users only) ... However, oddification cannot **control IDCT mismatch** under all coding conditions, nor is it suitable for ...

www.patentstorm.us/patents/5604502/description.html

...

[Show more results from www.patentstorm.us](#)

3. [Motion video compression system with inverse discrete cosine ...](#)

Download **PDF** EP0674447 · **PDF** help. Export Citation: This phenomena is called **IDCT mismatch** since the visible distortion in the decoded picture is ... However, oddification cannot **control IDCT mismatch** under all coding conditions, ...

www.freepatentsonline.com/EP0674447.html

by BG Haskell - 1995 - [Cited by 4](#) - [Related articles](#) - [All 5 versions](#)

4. [DCT domain down conversion system that compensates for IDCT ...](#)

Concurrent implementation of the **IDCT mismatch control** process and the DCT domain filter does not ... Download **PDF** EP1143738 · **PDF** help. Export Citation: ...

www.freepatentsonline.com/EP1143738.html

by K Hee-yong - 2001 - [Related articles](#)

...

[Show more results from www.freepatentsonline.com](#)

5. [US 6456663 - DCT domain down conversion system that compensates ...](#)

Concurrent implementation of the **IDCT mismatch control** process and the DCT ... value that has been modified by the **IDCT mismatch** operation. Download **PDF ...**
[www.patents.com/DCT-domain-down...IDCT-mismatch/.../en-US/ - Cached](#)

6. [CiNii - MPEG-2 Quantization, Coding Mechanism and IDCT mismatch ...](#) - [[Translate this page](#)]

CiNii Fulltext **PDF** · Webcat Plus Journal/Library Search ... About **IDCT mismatch control**, the cause of **IDCT mismatch** are shown, and **mismatch** protections are ...
[ci.nii.ac.jp/naid/110002935859/en](#)

7. [Pel Reconstruction](#)

12.8 **IDCT mismatch control**. The IEEE Std 1180 recommends that even parity **IDCT** coefficients be forced to odd values as the means of controlling the **IDCT ...**
[www.springerlink.com/index/m32741v3h241767g.pdf - Similar](#)

8. [\[PDF\] information technology — Coding of audio-visual objects — Part 2 ...](#)

File Format: PDF/Adobe Acrobat - [Quick View](#)

For **control** of accumulation of **IDCT mismatch** error, it is a requirement of bitstream conformance that each macroblock shall be intra-coded at least once ...
[www.iec.ch/cgi-bin/.../isoiec14496-2-cor2%7Bed1.0%7Den.pdf?...pdf](#)

9. [\[PDF\] Information technology — Coding of moving pictures and associated ...](#)

File Format: PDF/Adobe Acrobat - [Quick View](#)

For **control** of accumulation of **IDCT mismatch** error, each macroblock shall be intra-coded at least once per. 132 times it is coded in a P-picture without an ...
[www.iec.ch/cgi-bin/.../isoiec11172-2-cor4%7Bed1.0%7Den.pdf?...pdf](#)

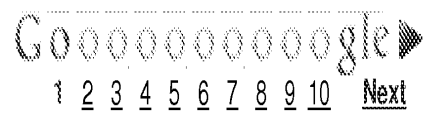
...

[Show more results from www.iec.ch](#)

10. [\[PDF\] An Estimation of Mismatch Error in IDCT Decoders Implemented with ...](#)

File Format: PDF/Adobe Acrobat - [Quick View](#)

even a slight **IDCT mismatch** may cause significant degradation. In applications such as of the log is used to **control** a barrel shifter. The input to the ...
[www.eurasip.org/Proceedings/Eusipco/Eusipco2007/Papers/A5P-K06.pdf](#)
by P Lee - 2007 - [Related articles](#)



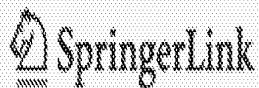
1 2 3 4 5 6 7 8 9 10 [Next](#)

IDCT with control mismatch pdf

Search

[Search within results](#) - [Language Tools](#) - [Search Help](#) - [Dissatisfied? Help us improve](#) - [Try Google Experimental](#)

[Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [Privacy](#) - [About Google](#)



Institutional Login

Recognized as:

U.S. Patent & Trademark Office,
Scientific & Technical (665-54-532)

US Patent and Trademark 2007
3686.002 (911-40-100)

Welcome!

To use the personalized features of
this site, please log in or register.

If you have forgotten your username
or password, we can help.

My Menu

Marked Items
Alerts
Order History

Saved Items

All
Favorites

Content Types
Subject Collections

English Go

Book Chapter



Pel Reconstruction

Book MPEG Video Compression Standard
Publisher Springer US
DOI 10.1007/b115884
Copyright 2002
ISBN 978-0-412-08771-4 (Print) 978-0-306-46983-1 (Online)
DOI 10.1007/0-306-46983-9_12
Pages 263-281
Subject Collection Computer Science
SpringerLink Date Tuesday, May 08, 2007

Add to marked items

Add to shopping cart

Add to saved items

Recommend this chapter

PDF (6.5 MB) Free Preview

Abstract

Without abstract.

Preview first page of full text.

Fulltext Preview (Small, Large)

Find

more

Go

☒ Within all content

☐ Within this book

Export this chapter

Export this chapter as RIS | Text

12

Pel Reconstruction

Recent chapters have dealt with the MPEG-1 system syntax, video syntax, and motion-compensated prediction. All of these are necessary precursors to the pel reconstruction process that actually creates the decoded pictures. To reconstruct the pel values, the coefficients in each block must be dequantized and the inverse DCT (IDCT) taken. Then, for nonintra blocks in P- and B-pictures, the motion-compensated prediction must be added to the results of the IDCT. The pel reconstruction process in MPEG-1 and MPEG-2 is the central topic of this chapter.

The IDCT is not rigidly standardized in MPEG; rather, the standard requires that the IDCT meet certain tolerances. The intent here is to prevent the buildup of excessive differences between encoder and decoder IDCT outputs when a sequence has many P-pictures pictures between each I-picture. The predictions of P-pictures are daisy-chained, and small differences between implementations then accumulate. *IDCT mismatch*, the term for this effect, is a subtle problem. This chapter presents an analysis of the rather different procedures used in MPEG-1 and MPEG-2 for reducing IDCT mismatch.

12.1 Intra-coded block dequantization 9

Figure 12.1 gives the `invQ.intra()` function, pseudocode for the dequantization (i.e., inverse quantization) for intra-coded blocks. (A mathematical description of quantization and dequantization is given in Section 3.6.2.) The flowchart corresponding to this procedure is shown in Figure 12.2. The pseudocode converts from zigzag scan order to row-column indexing almost immediately, whereas the flowchart does that conversion as nearly the last step. Both forms are valid.

Following the pseudocode in Figure 12.1 for all of the coefficients in the

[Frequently asked questions](#) | [General information on journals and books](#) | [Send us your feedback](#) | [Impressum](#) | [Contact](#)

© Springer. Part of Springer Science+Business Media

[Privacy](#), [Disclaimer](#), [Terms and Conditions](#), © [Copyright Information](#)

[MetaPress Privacy Policy](#)

Remote Address: 151.207.242.4 • Server: mpweb17

HTTP User Agent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; InfoPath.1; .NET CLR 2.0.50727)

Web Images Videos Maps News Shopping Gmail more ▼

[Search settings](#) | [Sign in](#)

Google

Google

IDCT with control mismatch pdf

Search

[Advanced Search](#)



Web

Results 11 - 20 of about 2,670 for IDCT with control mismatch pdf. (0.13 seconds)



[Show options...](#)

1. [PDF] [Specialists Group on Coding for Visual Telephony In previous ...](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

of refresh in order to **control** the accumulation of error. ... For both cases the SNR loss due to using the **mismatched IDCT** ...

[wftp3.itu.int/av-arch/video-site/h261/H261_Specialists.../340.pdf](#) - [Similar](#)

by S CCITT - [Cited by 10](#) - [Related articles](#) - [All 5 versions](#)

2. [PDF] [AN APPROACH FOR ENABLING DCT/IDCT ENERGY REDUCTION SCALABILITY IN ...](#)

File Format: PDF/Adobe Acrobat - [Quick View](#)

decoder **IDCT** for the entire GOP. This case consumes the most energy of all methods considered. The **control** energy estimate ...

[enws155.eas.asu.edu:8001/contpapers/dct.pdf](#)

by R Henning - [Cited by 2](#) - [Related articles](#) - [All 11 versions](#)

3. [PDF] [TECHNICAL NOTE AN OVERVIEW OF THE MPEG COMPRESSION ALGORITHM](#)

File Format: PDF/Adobe Acrobat - [Quick View](#)

II.10 - Alternative **IDCT Mismatch Control**. The coefficients at the input to the **IDCT** are modi- fied in order to avoid certain patterns of data. ...

[www.st.com/stonline/books/pdf/docs/1122.pdf](#) - [Similar](#)

4. [PDF] [Document made available under the Patent Cooperation Treaty \(PCT\)](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

fee-info.pdf. 8156. 313611 b8ae7559aa102495ea11508a07 a129eeb1 To **control IDCT mismatch** within the context of the H.261 and H.263 block-based video ...

[www.wipo.int/patentscope/search/en/docservicepdf.../id00000009036581;...](#)

5. [PDF] [MPEG-2 Video](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

IDCT mismatch control. • Coefficient VLC table escape format not allowed if use of shorter VLC possible. 18-796/Spring 1999/Chen. Slice and Macroblock ...

www.ece.cmu.edu/~ece796/mpeg2.pdf - [Similar](#)

by T Chen - [All 5 versions](#)

6. [\[PDF\] Performance Optimization of an MPEG-2 to MPEG-4 Video Transcoder](#)

File Format: PDF/Adobe Acrobat - [Quick View](#)

4.4 Optimizing **Mismatch Control**. To minimize the error accumulation due to **IDCT mismatch** at the MPEG-2 encoder and decoder, **mismatch control** is ...

www.merl.com/papers/docs/TR2003-57.pdf - [Similar](#)

by H Kalva - [Cited by 25](#) - [Related articles](#) - [All 10 versions](#)

7. [\[PDF\] Avoiding Oddification to Simplify MPEG-1 Decoding with LNS](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

next section, to minimize **IDCT mismatch** between the encoder and the decoder.

MPEG-2 uses a more complex method of **mismatch control** involving only F(7, ...

www.cse.lehigh.edu/~caar/marnold/papers/mmisp.pdf

by MG Arnold - [Cited by 3](#) - [Related articles](#) - [All 5 versions](#)

8. [\[PDF\] WO2004017641A1](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

iDCT algorithms is reduced by means of so called '**mismatch control**'. **Mismatch control** ... Performing **mismatch control** within the **iDCT** element. ...

www.vanrijndhoven.net/jps/publications/WO2004017641.pdf

9. [MPEG-1 & MPEG-2 Compression](#)

IDCT Mismatch Control. • Macroblock stuffing. • Run-level escape syntax. •

Chrominance samples horizontal position (co-locate with luminance in MPEG-2, ...

www.co-bw.com/.../MPEG%20Compression%20C7.pdf

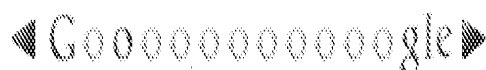
10. [\[PDF\] A Low-power IDCT Macrocell For MPEG-2 MP@ML Exploiting Data ...](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

by more **mismatch** phenomena than distributed RC delays on a nominally equipotential surface. Moreover, in the **IDCT** chip, all gated clock nets are global, ...

www-rtl.mit.edu/~anantha/docs/journals/1999_xanthopoulos_jssc.pdf

by T Xanthopoulos - 1999 - [Cited by 61](#) - [Related articles](#) - [All 15 versions](#)



[Previous](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [Next](#)

IDCT with control mismatch pdf

Search

[Search within results](#) - [Language Tools](#) - [Search Help](#) - [Dissatisfied? Help us improve](#) - [Try Google Experimental](#)

[Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [Privacy](#) - [About Google](#)